



A.D. 1858, *28th JUNE.* N^o 1456.

S P E C I F I C A T I O N

OF

JAMES CANE COOMBE.

MANUFACTURE OF MANURE FROM FŒCAL
AND OTHER MATTERS.

L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
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1858.



A.D. 1858, 28th JUNE. N° 1456.

Manufacture of Manure from Fœcal and other Matters.

(This Invention received Provisional Protection, but notice to proceed with the application for Letters Patent was not given within the time prescribed by the Act.)

PROVISIONAL SPECIFICATION left by James Cane Coombe at the Office of the Commissioners of Patents, with his Petition, on the 28th June 1858.

I, JAMES CANE COOMBE, of 10, Alfred Place, Newington Causeway, South-
5 wark, County of Surrey, Chemist, do hereby declare the nature of the said Invention for "**IMPROVEMENTS IN THE METHOD OF AND APPARATUS FOR MANUFACTURING MANURES FROM FŒCAL AND OTHER MATTERS,**" to be as follows:—

I prepare a retort of such a form as will give the largest amount of evaporating surface, and fix within it a fan or agitator, so as to be thrown
10 into action at will. I also arrange the head or cover so as to have compartments or permit of vessels to be suspended or inclosed for the purpose of containing certain deodorizing or disinfecting chemicals, herein-after mentioned. The beak of the retort may or may not terminate in a vessel of water, as found necessary. Having procured night soil or similar fœcal
15 matters, I place them in the said retort mixing them with magnesian limestone or other similar salt, and by means of the agitator render the mixture perfectly homogeneous. I heat the retort by means of steam, and continue to dissicate the mass until nearly deodorized, which I effect by means of chlorine gas or other disinfecting agents, which I generate and liberate at will
20 from the head or lid of the retort, and which absorb or decompose the noxious gases set free from the mass. To the compound now formed I propose to add

Coombe's Improvements in Manufacturing Manures from Fæcal & other Matters.

soluble superphosphate or silicates, and then continue the dissication in the retort until the mass becomes nearly dry ; it may then be ground up and mixed with blood, peat, charcoal, and other similar matters as may be requisite for the particular crops to which as a manure it is to be applied.

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1858.